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Michael Hicks, Scott Nettles

November 2005

[Transactions on Programming Languages and Systems \(TOPLAS\)](#), Volume 27 Issue

Publisher: ACM

Full text available (622 69 KB)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 247, Downloads (Overall): 1589, Citation Count:

Many important applications must run continuously and without interruption, and yet also must be changed to bugs or upgrade functionality. No prior general-purpose methodology for dynamic updating achieves a practical balance between flexibility, ...

Keywords: Dynamic software updating, typed assembly language

2 [Object-based and image-based object representations](#)

Hansan Samet

June 2004

[Computing Surveys \(CSUR\)](#), Volume 36 Issue 2

Publisher: ACM

Full text available (1.05 MB)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 261, Downloads (Overall): 3589, Citation Count:

An overview is presented of object-based and image-based representations of objects by their interiors. The representations are distinguished by the manner in which they can be used to answer two fundamental queries database applications: (1) Feature ...

Keywords: Access methods, R-trees, feature query, geographic information systems (GIS), image space, local query, object space, octrees, pyramids, quadtrees, space-filling curves, spatial databases

3 [Context-aware optimization of continuous range queries maintenance for trajectories](#)

Grace Trajcevski, Hui Ding, Peter Scheuermann

June 2005

[Mobile '05: Proceedings of the 4th ACM international workshop on Data engineering for wireless and mobile access](#)

Publisher: ACM

Full text available (183 44 KB)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 24, Downloads (Overall): 311, Citation Count: 4

This work addresses the problem of efficient *maintenance* of the (correct) answers to the continuous spatio-temporal range queries in Moving Objects Databases (MOD), which represent the objects' motion as *trajectories*. Specifically, we consider ...

Keywords: moving objects databases, triggers

4 [An integrated approach to recovery and high availability in an updatable, distributed data warehouse](#)

[Edmond Lau, Samuel Madden](#)

September 2006

Publisher: VLDB Endowment

Full text available: [PDF](#) (669 64 KB)**Bibliometrics:** Downloads (6 Weeks): 26, Downloads (12 Months): 192, Downloads (Overall): 905, Citation Count: 0

Any highly available data warehouse will use some form of data replication to tolerate machine failures. In this paper, we demonstrate that we can leverage this data redundancy to build an integrated approach to recovery high availability. Our approach, ...

5 Combinators for bidirectional tree transformations: A linguistic approach to the view-update problem[J. Nathan Foster, Michael B. Greenwald, Jonathan T. Moore, Benjamin C. Pierce, Alan Schmitt](#)

May 2007

 [Transactions on Programming Languages and Systems \(TOPLAS\)](#), Volume 29 Issue 3Publisher: ACM [Request Permissions](#)Full text available: [PDF](#) (1 06 MB)**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 142, Downloads (Overall): 557, Citation Count: 0

We propose a novel approach to the *view-update problem* for tree-structured data: a domain-specific programming language in which all expressions denote bidirectional transformations on trees. In one direction, these transformations---dubbed *lenses*---map ...

Keywords: Bidirectional programming, Harmony, XML, lenses, view update problem

6 Client-server computing in mobile environments[Jin-Jung Andrade-Santos, Sami Hattab, Ahmed Elmegahid](#)

June 1999

 [Computing Surveys \(CSUR\)](#), Volume 31 Issue 2Publisher: ACM [Request Permissions](#)Full text available: [PDF](#) (233 31 KB)**Bibliometrics:** Downloads (6 Weeks): 76, Downloads (12 Months): 562, Downloads (Overall): 6139, Citation Count: 0

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data information services, ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile computing, mobile data, mobility awareness, survey system application

7 Detecting attribute dependences from query feedback[Eduard Hass, Elshan Husseini, Volker Markl](#)

September 2007

 [VLDB '07: Proceedings of the 33rd international conference on Very large data base](#)

Publisher: VLDB Endowment

Full text available: [PDF](#) (479 68 KB)**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 33, Downloads (Overall): 128, Citation Count: 2

Real-world datasets exhibit a complex dependency structure among the data attributes. Learning this structure is a key task in automatic statistics configuration for query optimizers, as well as in data mining, metadata discovery and system management, ...

8 Labels and event processes in the Asbestos operating system

Steve Vandenhout, Petros Efstathopoulos, Eddie Kohler, Maxwell Krohn, Cliff Frey, David Ziegler, Frans Kaashoek
Robert Morris, David Mazières

December 2007

Transactions on Computer Systems (TOCS), Volume 25 Issue 4

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (1.21 MB)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 111, Downloads (Overall): 523, Citation Count: 0

Asbestos, a new operating system, provides novel labeling and isolation mechanisms that help contain the effects of exploitable software flaws. Applications can express a wide range of policies with Asbestos's kernel-enforced labels, including controls ...

Keywords: Information flow, labels, mandatory access control, process abstractions, secure Web servers

- 9 [Replay-based approaches to revision processing in stream query engines](#)

Anurag S. Mehta, Mitch Charnock

March 2008 **SPPS '08: Proceedings of the 2nd international workshop on Scalable stream processing systems**

Publisher: ACM

Full text available: [PDF](#) (433.78 KB)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 31, Downloads (Overall): 96, Citation Count: 0

Data stream processing systems have become ubiquitous in academic and commercial sectors, with application areas that include financial services, network traffic analysis, battlefield monitoring and traffic control. The only model of streams implies ...

Keywords: corrections, revision processing, revisions, streams

- 10 [Supporting Temporal Views in a Management Information Base](#)

Vassilios Tsotras, Vidyadhar Phatak, Anil Kumar, B. Gopinath

June 1999 **Journal of Network and Systems Management**, Volume 7 Issue 2

Publisher: Plenum Press

Full text available: [PDF](#) Publisher Site

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

In many network management applications, like post-mortem fault analysis or performance trends profiling, it is advantageous to have the ability to view the state of the network as it was at some time in the past. To support such Temporal Views ...

Keywords: DATA ORGANIZATION, HISTORICAL QUERIES, NETWORK MANAGEMENT, TEMPORAL DATABASES

- 11 [A taxonomy of Data Grids for distributed data sharing, management, and processing](#)

Srikumar Venugopal, Balakumar Biju, Kotagiri Ramamohanarao

June 2006 **Computing Surveys (CSUR)**, Volume 38 Issue 1

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (1.70 MB)

Bibliometrics: Downloads (6 Weeks): 96, Downloads (12 Months): 863, Downloads (Overall): 6494, Citation Count: 0

Data Grids have been adopted as the next generation platform by many scientific communities that need to share access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizations

- 12 [A Model to Disambiguate Natural Language Parses on the Basis of User Language Proficiency: Design and Evaluation](#)

Liza N. Michaud, Kathleen F. McCoy, Bushra Z. Davis

March 2005 **User Modeling and User-Adapted Interaction**, Volume 15 Issue 1-2

Publisher: Kluwer Academic Publishers

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

This paper discusses the design and evaluation of an implemented user model in ICICLE, an instruction system for users writing in a second language. We show that in the task of disambiguating natural language parses, a blended model combining overlay ...

Keywords: computer-aided language learning, learner modeling, natural language, parse disambiguation

13 A hierarchy-aware approach to faceted classification of object-oriented components

 E. Damiani, M. G. Fugini, S. Battistini

July 1999 **Transactions on Software Engineering and Methodology (TOSEM)**, Volume 8 Issue 3

Publisher: ACM 

Full text available:  (310.25 KB)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 64, Downloads (Overall): 803, Citation Count: 7

This article presents a hierarchy-aware classification schema for object-oriented code, where software components are classified according to their behavioral characteristics, such as provided services, employed algorithms, and needed ...

Keywords: code analysis, component repositories, component retrieval, software reuse, user feedback

14 3D Perception and Environment Map Generation for Humanoid Robot Navigation

Jens-Steffen Gutmann, Masahiko Fujimoto, Masahiro Fujita

October 2008 **International Journal of Robotics Research**, Volume 27 Issue 10

Publisher: Sage Publications, Inc.

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: ...

A humanoid robot that can go up and down stairs, crawl underneath obstacles or simply walk around requires reliable perceptual capabilities for obtaining accurate and useful information about its surroundings. In this work we present a system for ...

Keywords: 3D environment perception, humanoid robot navigation, range image segmentation, stereo vision

15 D(k)-Index: an adaptive structural summary for graph-structured data

 Kun-Chen, Andrew Lim, Kian-Win Ong

June 2003 **SIGMOD '03: Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

Publisher: ACM 

Full text available:  (217.80 KB)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 98, Downloads (Overall): 532, Citation Count: ...

To facilitate queries over semi-structured data, various structural summaries have been proposed. Structural summaries are derived directly from the data and serve as indices for evaluating path expressions on semi-structured or XML data. We introduce ...

16 IDR/QR: an incremental dimension reduction algorithm via QR decomposition

 Jingsong Ye, Qu Li, Hui Xiong, Haesun Park, Ravi Janardan, Vinay Kumar

August 2004 **KDD '04: Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery a data mining**

Publisher: ACM 

Full text available:  (209.30 KB)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 44, Downloads (Overall): 549, Citation Count: 5

Dimension reduction is critical for many database and data mining applications, such as efficient storage and retrieval of high-dimensional data. In the literature, a well-known dimension reduction scheme is Linear Discriminant Analysis (LDA). The common ...

Keywords: QR decomposition, dimension reduction, incremental learning, linear discriminant analysis

17 Mutatis Mutandis: Safe and predictable dynamic software updating

 Gareth Stoyns, Michael Hicks, Gavin Brownman, Peter Sewell, Julian Naumann

August 2007 **Transactions on Programming Languages and Systems (TOPLAS)**, Volume 29 Issue 4

Publisher: ACM 

Full text available:  (1.43 MB)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 154, Downloads (Overall): 535, Citation Count: ...

This article presents Proteus, a core calculus that models dynamic software updating, a service for fixing bugs by adding features to a running program. Proteus permits a program's type structure to change dynamically but guarantees the updated program ...

Keywords: Dynamic software updating, Proteus, capability, type inference, updateability analysis

18 Compiling mappings to bridge applications and databases

Sergey Melnik, Atul Adya, Philip A. Bernstein

November 2008

Transactions on Database Systems (TODS), Volume 33 Issue 4

Publisher: ACM [Request Permissions](#)

Full text available [PDF](#) (140 MB)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 262, Downloads (Overall): 738, Citation Count: 10

Translating data and data access operations between applications and databases is a longstanding data management problem. We present a novel approach to this problem, in which the relationship between the application data and the persistent storage is ...

Keywords: Mapping, query rewriting, updateable views

19 Improving instruction cache performance in OLTP

Stavros Harizopoulos, Anastasios Alexopoulos

September 2006

Transactions on Database Systems (TODS), Volume 31 Issue 3

Publisher: ACM [Request Permissions](#)

Full text available [PDF](#) (783.16 KB)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 95, Downloads (Overall): 665, Citation Count: 4

Instruction-cache misses account for up to 40% of execution time in online transaction processing (OLTP) database workloads. In contrast to data cache misses, instruction misses cannot be overlapped with out-of-order execution. Chip design limitations ...

Keywords: Instruction cache, cache misses

20 Communications of the ACM: Volume 52 Issue 1

January 2009

Communications of the ACM

Publisher: ACM

Full text available [Digital Edition](#), [PDF](#) (7.72 MB)

Bibliometrics: Downloads (6 Weeks): 246, Downloads (12 Months): 299, Downloads (Overall): 1449, Citation Cou

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